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(54) **IMPULSE AND MOMENTUM TRANSFER  
DEVICE**

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CPC ..... **F41H 5/007** (2013.01); **F41H 5/04**  
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(58) **Field of Classification Search**

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See application file for complete search history.

(57) **ABSTRACT**

This invention concerns a device for the transmission of impulse and momentum, e.g. from a shock wave from an explosion or momentum from objects impacting the device, from one location to another, and is primarily used to protect vehicles, ships, aircrafts and buildings against impulse and/or momentum, for instance in regards to attacks on those with grenades, bombs, mines and the like.

The governing physical principles are those of conservation of momentum and energy, and Newton's 3rd Law, claiming that for every action there is an equal but opposite reaction.

When the receiver **1** is accelerated by the incoming shock wave **9** it collides with the transmitter **2**, connected to an emitter **3**, momentum is transferred to the emitter **3**. If the transfer is in itself not sufficient to bring the receiver's **1** velocity to an acceptable level, additional energy and momentum is added through the transmitter **2**.

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**17 Claims, 8 Drawing Sheets**

